## **VERSION WITH MARKINGS TO SHOW CHANGES MADE**

The claims have been amended as follows:

1. (<u>Twice Amended</u>) In a vinyl acetate based polymer <u>emulsion formed</u> by the emulsion polymerization of vinyl acetate and N-methylolacrylamide, optionally other monomers, in the presence of a stabilizing system and a redox catalyst system comprised of an oxidizing agent and a reducing agent, the improvement for reducing formaldehyde emissions in the resulting <u>vinyl acetate based polymer</u> emulsion, which comprises:

forming said vinyl acetate based polymer <u>emulsion</u> utilizing as the reducing component of the redox catalyst system a reducing agent of the formula:

$$\begin{array}{c|c}
O & R_1 \\
S & R_2 \\
R_3 & R_3
\end{array}$$

where M is a hydrogen atom, an ammonium atom or a monovalent metal ion,  $R_1$  is OH or  $NR_4R_5$  wherein  $R_4$  and  $R_5$  each are H or  $C_1$ - $C_6$  alkyl;  $R_2$  is H or an alkyl, alkenyl, cycloalkyl or aryl and  $R_3$  is  $CO_2M$ .

2. (<u>Twice\_Amended</u>) The vinyl acetate based polymer <u>emulsion\_of Claim 1</u> in which the vinyl acetate based polymer comprises ethylene in an amount of from about 10 to 40% by weight of the polymer.

- 3. (<u>Twice Amended</u>) The vinyl acetate based polymer <u>emulsion</u> of Claim 2 wherein the N-methylolacrylamide is present in an amount of from about 0.5 to 10% by weight of the polymer.
- 4. (<u>Twice\_Amended</u>) The vinyl acetate based polymer <u>emulsion\_of Claim 3</u> wherein the reducing agent represented by the formula is selected from the group consisting of: 2-hydroxyphenyl hydroxymethyl sulfinic acid-sodium salt; 4-methoxyphenyl hydroxymethyl sulfinic acid-sodium salt; 2-hydroxy-2-sulfinato acetic acid-disodium salt; 2-hydroxy-2-sulfinato propionatic acid-disodium salt; ethyl 2-hydroxy-2-sulfinato propionate-sodium salt.
- 5. (<u>Twice Amended</u>) The vinyl acetate based polymer <u>emulsion</u> of Claim 4 wherein the vinyl acetate based polymer <u>emulsion</u> is formed using a redox catalytic system of hydrophobic hydroperoxide and the glycolic acid adduct of sodium sulfite.
- 6. (<u>Twice Amended</u>) The vinyl acetate based polymer <u>emulsion</u> of Claim 3 wherein M is sodium or zinc.
- 7. (<u>Twice Amended</u>) The vinyl acetate based polymer <u>emulsion</u> of Claim 3 wherein R<sub>1</sub> is OH.